

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- ⑥ BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

THIS PAGE BLANK (USPTO)

THOMSON
DELPHION

RESEARCH

PRODUCTS

INSIDE DELPHION

[Home](#) [About Us](#) [Products](#) [My Account](#) [Products](#)Search: [QuickNumber](#) [Boolean](#) [Advanced](#)

The Delphion Integrated View

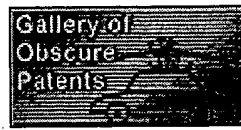
Get Now: ☒ PDF | [More choices...](#)Tools: Add to Work File: [Create new Wor](#)View: [INPADOC](#) | Jump to: [Top](#) [Go to: Derwent..](#)[Email](#)**Title: JP7249403A2: LAYERED BATTERY AND MANUFACTURE THEREOF****Country: JP Japan****Kind: A****Inventor: YOSHIHISA HIROYOSHI;****Assignee: YUASA CORP**
[News, Profiles, Stocks and More about this company](#)**Published / Filed: 1995-09-26 / 1994-03-11****Application Number: JP1994000040243****IPC Code: H01M 2/34; H01M 2/18; H01M 6/18;****Priority Number: 1994-03-11 JP1994000040243****Abstract:**

... PURPOSE: To increase position accuracy and prevent internal short circuit to improve reliability and mass productivity by providing electric insulating layers in the peripheral edge parts of positive or negative electrodes to form the positive electrodes and solid electrolyte films to them by coating or a printing method.

... CONSTITUTION: Unhardened paste, wherein active material and a conductive agent are mixed with a high molecular solid electrolyte, is applied by coating or printing onto the aluminium foil 2 of a positive electrode collector, and then is hardened to form a positive electrode 1. Like the positive electrode 1, the same paste is applied onto the positive electrode 1 to be hardened to form a high molecular solid electrolyte film 3, and a negative electrode 4 composed of lithium foil is pressed onto the copper foil 5 of a negative electrode collector. Then a window-like electric insulating layer 6 is coated on the peripheral edge part of the foil 2 to be formed slightly larger than the positive electrode 1 and the film 3 to insert the negative electrode 4 in the window frame of the layer 6. These are enclosed in casings 7 and 8 of stainless foil doubling as the negative and positive electrodes to be fusedly sealed by sealing resin 9. Consequently, position accuracy can be increased to prevent internal short circuit to increase reliability and mass productivity.

... COPYRIGHT: (C)1995,JPO

Family: None**Other Abstract Info: CHEMABS 124(02)012354K CAN124(02)012354K DERABS C95-370211 DERC95-370211**



[Nominate](#)

[this for the Gallery...](#)

© 1997-2003 Thomson Delphion

[Research Subscriptions](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact](#)

THOMSON
DELPHION

RESEARCH


PRODUCTS

INSIDE DELPHION

My Account | Products

Search: Quick/Number Boolean Advanced

The Delphion Integrated View

Get Now: ☒ PDF | [More choices...](#)Tools: Add to Work File: [Create new Wor](#)View: [INPADOC](#) | Jump to: [Top](#)  Go to: [Derwent...](#) [Ema](#)**Title:** JP7249403A2: LAYERED BATTERY AND MANUFACTURE THEREOF**Country:** JP Japan**Kind:** A**Inventor:** YOSHIHISA HIROYOSHI;**Assignee:** YUASA CORP
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** 1995-09-26 / 1994-03-11**Application Number:** JP1994000040243**IPC Code:** [H01M 2/34](#); [H01M 2/18](#); [H01M 6/18](#);**Priority Number:** 1994-03-11 JP1994000040243**Abstract:**

PURPOSE: To increase position accuracy and prevent internal short circuit to improve reliability and mass productivity by providing electric insulating layers in the peripheral edge parts of positive or negative electrodes to form the positive electrodes and solid electrolyte films to them by coating or a printing method.

CONSTITUTION: Unhardened paste, wherein active material and a conductive agent are mixed with a high molecular solid electrolyte, is applied by coating or printing onto the aluminium foil 2 of a positive electrode collector, and then is hardened to form a positive electrode 1. Like the positive electrode 1, the same paste is applied onto the positive electrode 1 to be hardened to form a high molecular solid electrolyte film 3, and a negative electrode 4 composed of lithium foil is pressed onto the copper foil 5 of a negative electrode collector. Then a window-like electric insulating layer 6 is coated on the peripheral edge part of the foil 2 to be formed slightly larger than the positive electrode 1 and the film 3 to insert the negative electrode 4 in the window frame of the layer 6. These are enclosed in casings 7 and 8 of stainless foil doubling as the negative and positive electrodes to be fusedly sealed by sealing resin 9. Consequently, position accuracy can be increased to prevent internal short circuit to increase reliability and mass productivity.

COPYRIGHT: (C)1995,JPO

Family: None**Other Abstract Info:** CHEMABS 124(02)012354K CAN124(02)012354K DERABS C95-370211 DERC95-370211



[Nominate](#)

[this for the Gallery...](#)

© 1997-2003 Thomson Delphion | [Research Subscriptions](#) | [Privacy Policy](#) | [Terms & Conditions](#) | [Site Map](#) | [Contact](#)



(19)

(11) Publication number:

07

Generated Document

PATENT ABSTRACTS OF JAPAN(21) Application number: **06040243**(51) Intl. Cl.: **H01M 2/34 H01M 2/18 H01M**(22) Application date: **11.03.94**

(30) Priority:

(43) Date of application
publication: **26.09.95**(84) Designated contracting
states:(71) Applicant: **YUASA CORP**(72) Inventor: **YOSHIHISA HIROYOSH**

(74) Representative:

**(54) LAYERED BATTERY
AND MANUFACTURE
THEREOF**

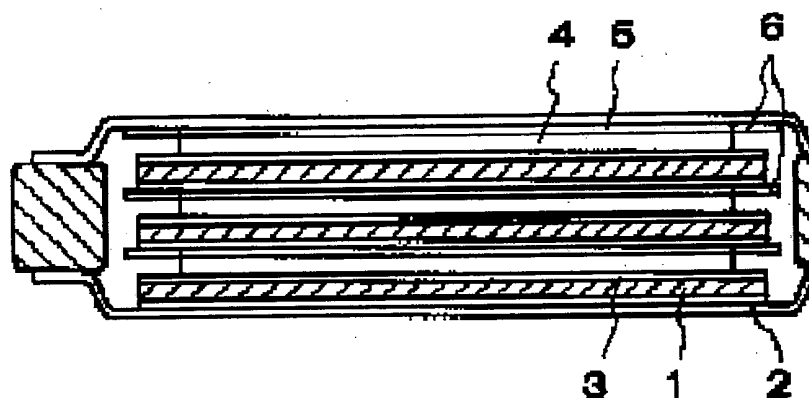
(57) Abstract:

PURPOSE: To increase position accuracy and prevent internal short circuit to improve reliability and mass productivity by providing electric insulating layers in the peripheral edge parts of positive or negative electrodes to form the positive electrodes and solid electrolyte films to them by coating or a printing method.

CONSTITUTION: Unhardened paste, wherein active material and a conductive agent are mixed with a high molecular solid electrolyte, is applied by coating or printing onto the aluminium foil 2 of a positive electrode collector, and then is hardened to form a positive electrode 1. Like the positive electrode 1, the same paste is applied onto the positive electrode 1 to be hardened to form a high molecular solid

electrolyte film 3, and a negative electrode 4 composed of lithium foil is pressed onto the copper foil 5 of a negative electrode collector. Then a window-like electric insulating layer 6 is coated on the peripheral edge part of the foil 2 to be formed slightly larger than the positive electrode 1 and the film 3 to insert the negative electrode 4 in the window frame of the layer 6. These are enclosed in casings 7 and 8 of stainless foil doubling as the negative and positive electrodes to be fusedly sealed by sealing resin 9. Consequently, position accuracy can be increased to prevent internal short circuit to increase reliability and mass productivity.

COPYRIGHT: (C)1995,JPO





(19)

(11) Publication number: **07**

Generated Document.

PATENT ABSTRACTS OF JAPAN(21) Application number: **06040243**(51) Intl. Cl.: **H01M 2/34 H01M 2/18 H01M**(22) Application date: **11.03.94**

(30) Priority:	
(43) Date of application publication:	26.09.95
(84) Designated contracting states:	
(71) Applicant:	YUASA CORP
(72) Inventor:	YOSHIHISA HIROYOSH
(74) Representative:	

**(54) LAYERED BATTERY
AND MANUFACTURE
THEREOF**

(57) Abstract:

PURPOSE: To increase position accuracy and prevent internal short circuit to improve reliability and mass productivity by providing electric insulating layers in the peripheral edge parts of positive or negative electrodes to form the positive electrodes and solid electrolyte films to them by coating or a printing method.

CONSTITUTION: Unhardened paste, wherein active material and a conductive agent are mixed with a high molecular solid electrolyte, is applied by coating or printing onto the aluminium foil 2 of a positive electrode collector, and then is hardened to form a positive electrode 1. Like the positive electrode 1, the same paste is applied onto the positive electrode 1 to be hardened to form a high molecular solid

electrolyte film 3, and a negative electrode 4 composed of lithium foil is pressed onto the copper foil 5 of a negative electrode collector. Then a window-like electric insulating layer 6 is coated on the peripheral edge part of the foil 2 to be formed slightly larger than the positive electrode 1 and the film 3 to insert the negative electrode 4 in the window frame of the layer 6. These are enclosed in casings 7 and 8 of stainless foil doubling as the negative and positive electrodes to be fusedly sealed by sealing resin 9. Consequently, position accuracy can be increased to prevent internal short circuit to increase reliability and mass productivity.

COPYRIGHT: (C)1995,JPO

